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TR Series Block Diagram

Memory Switches (Test Mode)

1. Operation Procedures

The Memory switch settings can be reprogrammed to make fine adjustments in Image scanning and Master making. The Memory switch mode is started up by the same method as with Test mode. Test mode **No.98** resets all the Memory switch settings to the initial setting of "**0**".

Use the PRINT POSITION button ◁ or ▷ to make the setting selection.

No. **Test Item**

200 **Machine model setting**

SW setting	0	1	2	3	4	5
Machine type	TR153 Japan 100V	TR1530 Asia 110V Asia 220V Europe 220V	TR151 Japan 100V	TR1510 Asia 110V Asia 220V Europe 220V	TR1510 U.S.A. 110V	TR1510 S. America 220V

201 **TPH power setting**

SW setting	0	1	2	3	4	5	6	7	8	9	A	b	C	d	E	F
Power setting	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

202 **Master return amount after master cut**

SW setting	0	1	2	3	4	5	6	7
Amount (mm)	8	9	10	11	12	13	14	15
	8	9	A	b	C	d	E	F
	0	1	2	3	4	5	6	7

203 **Scan position shift (Horizontally against the original)**

SW setting	0	1	2	3	4	5	6	7
Amount (mm)	±0.0	+0.5	+1.0	+1.5	+2.0	+2.5	+3.0	+3.5
	8	9	A	b	C	d	E	F
	+4.0	+4.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5

Amount in (+) indicates shift to the LEFT, and (-) indicates shift to the RIGHT.

204 **Paper feed clutch ON timing (Drum angle from the A-position)**

SW setting	0	1	2	3	4	5	6	7	8	9	A	b	C	d	E	F
Drum angle(°)	62	64	66	68	70	72	74	76	46	48	50	52	54	56	58	60

205 **Master making image area (length)**

SW setting	0	1	2	3	4	5	6	7
Amount (mm)	±0.0	+0.5	+1.0	+1.5	+2.0	+2.5	+3.0	+3.5
	8	9	A	b	C	d	E	F
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5

Amount in (+) indicates additional area, and (-) indicates less area.

Memory Switches (continued)

Use the PRINT POSITION button ◁ or ▷ to make the setting selection.

No.	Test Item
206	**Image scanning start position** SW setting: 0 / 1 / 2 / 3 / 4 / 5 / 6 / 7 Amount (mm): ±0.0 / +0.5 / +1.0 / +1.5 / +2.0 / +2.5 / +3.0 / +3.5 SW setting: 8 / 9 / A / b / C / d / E / F Amount (mm): -4.0 / -3.5 / -3.0 / -2.5 / -2.0 / -1.5 / -1.0 / -0.5 Adjustment (+) or (-) distance of the original set distance from the Original IN sensor.
207	**Drum B-Position adjustment (Drum angle from the A-position)** SW setting: 0 / 1 / 2 / 3 / 4 / 5 / 6 / 7 Drum angle (°): 272 / 273 / 274 / 275 / 276 / 277 / 262 / 263 SW setting: 8 / 9 / A / b / C / d / E / F Drum angle (°): 264 / 265 / 266 / 267 / 268 / 269 / 270 / 271
208	**Drum inkless timer setting (Right after the Ink pack is replaced)** SW setting: 0 / 1 / 2 / 3 / 4 / 5 / 6 / 7 Time (seconds): 90 / 100 / 110 / 120 / 130 / 140 / 150 / 160 SW setting: 8 / 9 / A / b / C / d / E / F Time (seconds): 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80
209	**Image elongation and shrinkage in image scanning** SW setting: 0 / 1 / 2 / 3 / 4 / 5 / 6 / 7 Amount (mm): ±0.0 / -1 / -2 / -3 / -4 / -5 / -6 / -7 SW setting: 8 / 9 / A / b / C / d / E / F Amount (mm): +8 / +7 / +6 / +5 / +4 / +3 / +2 / +1 • The adjustment is made by changing the R.P.M. of the Read pulse motor. • Above given chart is based on B4 size paper. • Adjusting to (+) elongates, and to (-) shrinks the image.
210	**Paper feed clutch OFF timing** SW setting: 0 / 1 / 2 / 3 / 4 / 5 / 6 / 7 Drum angle (°): 21 / 22 / 23 / 24 / 25 / 26 / 27 / 28 SW setting: 8 / 9 / A / b / C / d / E / F Drum angle (°): 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 Above Drum angle is the roation of the Drum from the time the Paper sensor detects incoming paper until the Paper feed clutch disengages.

206 Image scanning start position

SW setting	0	1	2	3	4	5	6	7
Amount (mm)	±0.0	+0.5	+1.0	+1.5	+2.0	+2.5	+3.0	+3.5
	8	9	A	b	C	d	E	F
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5

Memory Switches (continued)

Use the PRINT POSITION button ◁ or ▷ to make the setting selection.

No. **Test Item**

211 **1st paper feed jam detection timing**

SW setting	0	1	2	3	4	5	6	7
Drum angle(°)	135	137	139	141	143	145	-----	-----
	8	9	A	b	C	d	E	F
	-----	-----	-----	-----	127	129	131	133

(Drum rotation from the Position-A until the Paper sensor checks incoming paper)

212 **Inkless timer adjustment**

SW setting	0	1	2	3	4	5	6	E	F	7 ~ D are not used.
Time (seconds)	20	25	30	35	40	45	50	10	15	

213 **Image making on master "start" position adjustment**

SW setting	0	1	2	3	4	5	6	7	8 ~ F are not used.
Distance (mm)	0	+1	+2	+3	+4	+5	+6	+7	

- This is to adjust the master setting distance from the Master positioning sensor.
- Adjusting to (+) moves the printed image downward on the prints.
- Loading clutch activation timing is changed to keep master under Clamp plate constant.

214 **Amount of master under the Clamp plate adjustment**

SW setting	0	1	2	3	4	5	6	7
Amount (mm)	±0	+1	+2	+3	—	—	—	—
	8	9	A	B	C	D	E	F
	—	—	—	-5	-4	-3	-2	-1

- This is to adjust the duration of the Master loading clutch activation time.
- Adjusting to (+) increases the amount of master clamped unter the Clamp plate.

216 **Image elongation and shrinkage adjustment in master making**

SW setting	0	1	2	3	4	5	6	7
Amount (mm)	±0.0	+0.5	+1.0	+1.5	+2.0	+2.5	+3.0	+3.5
	8	9	A	b	C	d	E	F
	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5

- The adjustment is made by changing the R.P.M. of the Write pulse motor.
- Above given chart is based on B4 size paper.
- Adjusting to (+) elongates, and to (-) shrinks the image.

217 **Drum angles of the last Drum stop during intermittent master loading on Drum**

SW setting	0	1	2	3	4	5	6	7
Angle χ (°)	±0	+5	+10	+15	+20	—	—	—
	8	9	A	b	C	d	E	F
	—	—	—	—	-20	-15	-10	-5

- B4 Drum machine = Drum angle 185° ± χ°.
- A4 Drum machine = Drum angle 155° ± χ°.